

Application/Control No. 09/975,621
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 23-34 (Cancelled)

35. (New) A method comprising:

monitoring an electrogram signal to find a trigger event in the electrogram signal;
generating a trigger indicator signal upon finding the trigger event;
recording a plurality of sampled values of the electrogram signal in memory; and
recording the trigger indicator signal in memory contemporaneously with the
recording of the sampled values of the electrogram signal,

wherein recording the trigger indicator signal in memory comprises replacing one
of the sampled values with the trigger indicator signal.

36. (New) A method according to claim 35, wherein the trigger event comprises
detection of out-of-range values of the electrogram signal.

37. (New) A method according to claim 35, wherein the trigger indicator signal is a
first trigger indicator signal corresponding to a first trigger event, the method further
comprising:

generating a second trigger indicator signal upon finding the second trigger event
in the electrogram signal; and

recording the second trigger indicator signal in memory contemporaneously with
the recording of the sampled values of the electrogram signal.

38. (New) A method according to claim 35, further comprising compressing the
plurality of sampled values prior to recording the plurality of sampled values in memory.

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39. (New) A method according to claim 35, further comprising:
transmitting the recorded sampled values of the electrogram signal and the recorded trigger indicator signal to an external device;
parsing the trigger indicator signal from the recorded sampled values of the electrogram signal; and
generating a display as a function of the recorded sampled values.
40. (New) A method according to claim 39, wherein generating the display as a function of the recorded sampled values comprises displaying an electrogram waveform.
41. (New) A method according to claim 39, further comprising generating the display as a function of the trigger indicator signal.
42. (New) A method according to claim 41, wherein generating the display as a function of the trigger indicator signal comprises generating a display icon as a function of the trigger indicator signal.
43. (New) A method according to claim 41, further comprising:
monitoring the electrogram signal to find noise in the electrogram signal;
generating a noise indicator signal upon finding the noise, the noise indicator signal being a function of the noise found in the electrogram signal; and
recording the noise indicator signal in memory contemporaneously with the recording of the sampled values of the electrogram signal,
wherein recording the noise indicator signal in memory comprises replacing another of the sampled values with the noise indicator signal.
44. (New) A method according to claim 43, further comprising:
transmitting the recorded noise indicator signal to an external device;
parsing said noise indicator signal from the recorded sampled values of the electrogram signal; and

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generating a second display as a function of the recorded sampled values.

45. (New) A method according to claim 44, further comprising generating the display as a function of the noise indicator signal.

46. (New) A method according to claim 45, wherein generating the display as a function of the noise indicator signal comprises generating a display icon as a function of the noise indicator signal.

47. (New) A method according to claim 35, further comprising recording other sensor data in memory.

48. (New) A method according to claim 47, wherein the other sensor data comprises a plurality of samples of other sensor data, the method further comprising recording one sample of other sensor data per thirty sampled values of the electrogram signal.

49. (New) A method according to claim 35, wherein the trigger event comprises an arrhythmia.

50. (New) A method according to claim 35, wherein monitoring the electrogram signal to find a trigger event in the electrogram signal comprises monitoring the electrogram signal to find a predetermined pattern in the electrogram signal.

51. (New) A computer readable medium containing stored executable instructions for performing a method, comprising:

instructions for monitoring an electrogram signal to find a trigger event in the electrogram signal;

instructions for generating a trigger indicator signal upon finding the trigger event;

instructions for recording a plurality of sampled values of the electrogram signal in memory; and

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instructions for recording the trigger indicator signal in ^{the} memory
contemporaneously with the recording of the sampled values of the electrogram signal,
wherein the recording the trigger indicator signal in ^{the} memory further comprises
instructions for replacing one of the sampled values with the trigger indicator signal.

52. (New) A medium according to claim 51, wherein the trigger event comprises
detection of out-of-range values of the electrogram signal.

53. (New) A medium according to claim 51, wherein the trigger indicator signal
comprises a first trigger indicator signal corresponding to a first trigger event, and
further comprising:

instructions for generating a second trigger indicator signal upon finding the
second trigger event in the electrogram signal; and

instructions for recording the second trigger indicator signal in memory
contemporaneously with the recording of the sampled values of the electrogram signal.

54. (New) A medium according to claim 51, further comprising instructions for
compressing the plurality of sampled values prior to recording the plurality of sampled
values in memory.

55. (New) A medium according to claim 51, further comprising:

instructions for transmitting the recorded sampled values of the electrogram
signal and the recorded trigger indicator signal to an external device;

instructions for parsing the trigger indicator signal from the recorded sampled
values of the electrogram signal; and

instructions for generating a display as a function of the recorded sampled
values.

56. (New) A medium according to claim 55, wherein the instructions for generating
the display as a function of the recorded sampled values comprises instructions for
displaying an electrogram waveform.

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57. (New) A medium according to claim 55, further comprising instructions for generating the display as a function of the trigger indicator signal.
58. (New) A medium according to claim 57, wherein the instructions for generating the display as a function of the trigger indicator signal further comprises instructions for generating a display icon as a function of the trigger indicator signal.
59. (New) A medium according to claim 57, further comprising:
instructions for monitoring the electrogram signal to find noise in the electrogram signal;
instructions for generating a noise indicator signal upon finding the noise, the noise indicator signal being a function of the noise found in the electrogram signal; and
instructions for recording the noise indicator signal in memory contemporaneously with the recording of the sampled values of the electrogram signal, wherein recording the noise indicator signal in memory comprises replacing another of the sampled values with the noise indicator signal.
60. (New) A medium according to claim 59, further comprising:
instructions for transmitting the recorded noise indicator signal to an external device;
instructions for parsing said noise indicator signal from the recorded sampled values of the electrogram signal; and
instructions for generating a display as a function of the recorded sampled values.
61. (New) A medium according to claim 60, further comprising instructions for generating the display as a function of the noise indicator signal.

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62. (New) A medium according to claim 61, wherein the instructions for generating the display as a function of the noise indicator signal further comprises instructions for generating a display icon as a function of the noise indicator signal.
63. (New) A medium according to claim 51, further comprising instructions for recording other sensor data in memory.
64. (New) A medium according to claim 63, wherein the other sensor data comprises a plurality of samples of other sensor data, the medium further comprising instructions for recording one sample of other sensor data per thirty sampled values of the electrogram signal.
65. (New) A medium according to claim 51, wherein the trigger event comprises an arrhythmia.
66. (New) A medium according to claim 51, wherein the instructions for monitoring the electrogram signal to find a trigger event in the electrogram signal further comprises instructions for monitoring the electrogram signal to find a predetermined pattern in the electrogram signal.
67. (New) An apparatus for performing a method, comprising:
means for monitoring an electrogram signal to find a trigger event in the electrogram signal;
means for generating a trigger indicator signal upon finding the trigger event;
means for recording a plurality of sampled values of the electrogram signal in memory; and
means for recording the trigger indicator signal in memory contemporaneously with the recording of the sampled values of the electrogram signal,
wherein the recording the trigger indicator signal in memory further comprises means for replacing one of the sampled values with the trigger indicator signal.

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68. (New) An apparatus according to claim 67, wherein the trigger event comprises detection of out-of-range values of the electrogram signal.

69. (New) An apparatus according to claim 67, wherein the trigger indicator signal comprises a first trigger indicator signal corresponding to a first trigger event, and further comprising:

means for generating a second trigger indicator signal upon finding the second trigger event in the electrogram signal; and

means for recording the second trigger indicator signal in memory contemporaneously with the recording of the sampled values of the electrogram signal.

70. (New) An apparatus according to claim 67, further comprising means for compressing the plurality of sampled values prior to recording the plurality of sampled values in memory.

71. (New) An apparatus according to claim 67, further comprising:

means for transmitting the recorded sampled values of the electrogram signal and the recorded trigger indicator signal to an external device;

means for parsing the trigger indicator signal from the recorded sampled values of the electrogram signal; and

means for generating a display as a function of the recorded sampled values.

72. (New) An apparatus according to claim 71, wherein the means for generating the display as a function of the recorded sampled values comprises means for displaying an electrogram waveform.

73. (New) An apparatus according to claim 71, further comprising means for generating the display as a function of the trigger indicator signal.

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74. (New) An apparatus according to claim 73, wherein the means for generating the display as a function of the trigger indicator signal further comprises means for generating a display icon as a function of the trigger indicator signal.

75. (New) An apparatus according to claim 73, further comprising:
means for monitoring the electrogram signal to find noise in the electrogram signal;
means for generating a noise indicator signal upon finding the noise, the noise indicator signal being a function of the noise found in the electrogram signal; and
means for recording the noise indicator signal in memory contemporaneously with the recording of the sampled values of the electrogram signal,
wherein recording the noise indicator signal in memory comprises replacing another of the sampled values with the noise indicator signal.

76. (New) An apparatus according to claim 75, further comprising:
means for transmitting the recorded noise indicator signal to an external device;
means for parsing said noise indicator signal from the recorded sampled values of the electrogram signal; and
means for generating a display as a function of the recorded sampled values.

77. (New) An apparatus according to claim 76, further comprising means for generating the display as a function of the noise indicator signal.

78. (New) An apparatus according to claim 77, wherein the means for generating the display as a function of the noise indicator signal further comprises means for generating a display icon as a function of the noise indicator signal.

79. (New) An apparatus according to claim 67, further comprising means for recording other sensor data in memory.

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80. (New) An apparatus according to claim 67, wherein the means for monitoring the electrogram signal to find a trigger event in the electrogram signal further comprises means for monitoring the electrogram signal to find a predetermined pattern in the electrogram signal.
